

CLAIMS

1/ A fluid dispenser comprising:

a fluid reservoir (1);

at least one dispensing orifice through which the
5 fluid is dispensed;

a fluid feed duct (12) connecting the reservoir (1) to
the dispensing orifice, said duct being provided with an
inlet and with an outlet;

a valve (31, 61) for selectively closing off the feed
10 duct, said valve comprising a moving valve member (31)
mounted to move between a passageway-closure position and a
passageway-opening position, the moving valve member being
mounted to be moved in translation along a valve axis; and

actuating means (4) for moving the moving valve member
15 (31) between the passageway-closure position and the
passageway-opening position;

said fluid dispenser being characterized in that the
actuating means can be moved transversely to said valve
axis, the actuating means comprising force-transmitting
20 means (37, 42) suitable for transforming a force exerted on
the actuating means into a transverse thrust force exerted
on the moving valve member to move it towards its
passageway-closure position.

25 2/ A dispenser according to claim 1, in which, the moving
valve member comes into leaktight abutment against a fixed
valve seat (61), formed at the outlet of the feed duct
(12), when in the passageway-closure position, and remains
away from said seat when in the passageway-opening
30 position.

3/ A dispenser according to claim 1, in which the moving member is urged resiliently into the opening position by spring means (34).

5 4/ A dispenser according to claim 1, in which the force-transforming means comprise a cam system (37, 42).

5/ A dispenser according to claim 4, in which the cam system comprises a cam element (37) secured to the moving member (31) and a cam piece (42) formed by the actuating means.

6/ A dispenser according to claim 5, in which the cam piece (42) can be moved in translation and transversely relative to the cam element.

7/ A dispenser according to claim 5, in which the cam piece can be moved in rotation and transversely relative to the cam element.

8/ A dispenser according to claim 1, in which the actuating means (4) further comprising a control element (45) that is accessible from outside the dispenser.

9/ A dispenser according to claim 1, comprising a closure member (46) serving to come into place selectively in front of or behind said at least one dispensing orifice (22) to close it off.

10/ A dispenser according to claim 5, in which the cam piece (42) and the closure element (46) are constrained to move together.

11/ A dispenser according to claim 1, in which the actuating means (4) are made integrally as a single piece.

12/ A dispenser according to claim 1, in which the moving member (31) is secured to a support piece (3) on which a piece of porous material (30) is mounted that can be impregnated with fluid, said piece (30) being urged resiliently into contact with said at least one dispensing orifice (22).

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13/ A dispenser according to claim 12, in which the support piece (3) is provided with common spring means (34) for simultaneously urging the piece of porous material (30) against said at least one dispensing orifice (22) and urging the moving member (31) into the passageway-opening position.

14/ A dispenser according to claim 12, in which the support piece (3) forms an outlet channel (32) connecting the outlet of the duct (12) to the piece of porous material (30), the moving member (31) being mounted inside said channel (32).

15/ A dispenser according to claim 14, in which the channel (32) has an elastically-deformable portion (34) making it possible to move the moving member (31) and the piece of porous material (30).

16/ A dispenser according to claim 12, in which the support piece (3) is provided with an elastically deformable diaphragm (36) having an outer peripheral edge (361) that is held in fixed manner, said diaphragm (36) moving the

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moving member (31) and the piece of porous material (30) in translation axially.

17/ A dispenser according to claim 1, further comprising a
5 vibratory plate (2) that generates vibration in the fluid, said plate advantageously being vibrated by a piezoelectric element.

18/ A dispenser according to claim 17, in which said at
10 least one dispensing orifice (22) is formed through the vibratory plate (2).

19/ A fluid dispenser comprising:
- a fluid reservoir (1),
15 - a fluid feed duct (12) connecting the reservoir (1) to dispensing orifices,
- a vibratory plate (2) that generates vibration in the fluid, said plate advantageously being vibrated by a piezoelectric element, and
20 - a closure member (46) serving to come into place selectively in front of or behind said at least one dispensing orifice (22) to close it off.

20/ A dispenser according to claim 19, in which said at
25 least one dispensing orifice (22) is formed through the vibratory plate (2).